

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A Program Clock Reference (PCR) correction method in a transmission over a downlink in an integrated multispot satellite communication system (S) in which said downlink is transmitted in burst mode and comprises a plurality of multiplexed, modulated and compressed packets, corresponding to at least one user (a1, a2, b1, c1, c2, c3 and c4), ~~characterised in that said~~ wherein said method of correcting a Program Clock Reference correction is comprises calculating ~~in terms of a distance (d) defined between a real position of a packet (a12) and an estimated position of said packet, the estimated position being that which said packet (a12) would occupy if the downlink had not been compressed in a modulation and compression stage.~~

2. (currently amended): ~~Method~~ The method of claim 1, ~~wherein which said PCR correction is defined by means of the following formula:~~

$$C_{PCR} = t_{dpack} \cdot d$$

where:

“C<sub>PCR</sub>” is the correction factor;

“d” is the distance between the real position and the estimated position of the packet; and

“t<sub>dpack</sub>” is the duration in time of a packet in the downlink frame.

3. (previously presented): Method according to claim 1 in which said distance (d) is defined by means of the following formula:

$$d = n_d - \frac{n_{dt}}{n_{ut}} \cdot n_u$$

where:

$n_d$  is the number of the downlink position of the packet in process;

$n_{dt}$  is the total number of packets in the downlink frame;

$n_{ut}$  is the total number of packets per frame and user; and

$n_u$  is the number of the uplink position of the packet in process.

and where both  $n_d$  and  $n_u$  start counting from zero.

4. (previously presented): Method according to claim 1 in which said transmission is carried out in MPEG2 transport streams in TDMA format.

5. (currently amended): An ~~Integrated-integrated~~ multispot satellite communication system (S) for carrying out the method of claim 1.